

**ABSTRACT**

A sensor and guide wire assembly (21) for intravascular measurements of physiological variables in a living body includes a core wire (22; 32) and a sensor element (23; 33). The sensor element (23; 33) includes basically a mounting portion (12; 34), which is mounted to the core wire (22; 32), and a pressure sensitive end portion (25; 35) whose upper side is provided with a pressure sensitive device, such as a membrane (26; 36). A recess (27; 37), which is provided between the mounting portion (24; 34) and the pressure sensitive portion (25; 35), provides the sensor element (23; 33) with an articulated action when the core wire (22; 32) is bent.